Change treat

080807

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DATA EVALUATION REPORT

1. CHEMICAL: Simazine

Shaughnessy Number: 080807

2. Formulation: Technical (% not given)

3. CITATION: Zak, F.; Homan, W.D.; Sachsse, K. (1973) 56-Day

Toxicity and Residue Study of Simazine on

Rainbow Trout (Salmo gairdneri) Proj. No. 1725.

Unpublished study received April 27, 1977 under 100-541; prepared by Ciba-Geigy, Ltd.

(229907).

4. REVIEWER: Daniel Rieder

Wildlife Biologist

5. REVIEW DATE: 2/7/83

6. TEST TYPE: 28-day subacute exposure

TEST SPECIES: Rainbow Trout

TEST MATERIAL: Technical Simazine

7. RESULTS: No mortality after 28 days exposure to 2.5 ppm simazine for 21 fish weighing 25 to 40 g.; the

28-day LC50 for trout this size is greater

than 2.5 ppm.

8. Conclusion: This study does not meet guideline requirements for an acute toxicity study with coldwater fish because the fish were too large, not enough test levels were used and no LC50 was calculated. It does provide useful supplemental information showing that simazine is moderately (or less) toxic to 4- to 6-inch trout. This category cannot be upgraded.

METHODS

Technical simazine was used as the test material. The test was conducted on rainbow trout at a nominal concentration of 2.5 ppm. Twenty-one fish were tested, 21 served as a control group. The test was a static residue analysis study with 28 days of exposure and 28 days of depuration. For residue study 2 fish were taken on days 3, 7, 14, 18, 21 and 28 and then at day 42, 49 and 56. Water samples were also taken and subjected to chemical analysis.

Appearance, behavior, toxic symptoms, bodyweight, food consumption and mortality were recorded. DO and pH were taken every 24 hours for 56 days.

RESULTS

No mortality nor toxic symptoms were observed. The DO and pH level were within normal limits (9-11 mg/l O_2 and pH 7.0-7.3).

Food intake and weight gain were within normal limits when compared to the controls.

Day	Measured Residue in Water
3 7 14 18 21 28 42 49 56	2.11 2.36 2.40 2.17 2.00 2.00 <0.01 <0.01

Days	Total Triazine (ppm) in muscle	Simazine intestine	(ppm) muscle
3 7 14 21 28 42 49 56	3.2 4.8 7.6 8.5 9.3 4.6	4.8 3.8 4.2 2.4 2.5 1.2 3.6 1.2	2.7 2.3 2.8 2.3 1.8 <0.05 <0.09 <0.09

Residues built up to less than 4X in muscle.

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REVIEWER EVALUATION

The study shows that coldwater fish will not die after 28 days exposure to 2.5 ppm of simazine. Als, It does not tend to bioaccumulate in fish tissue.

CONCLUSION

Category: Supplemental

Rationale: This study does not fulfill guideline requirements because it was a 28-day exposure and only one level was tested. No 96-hour LC50 was calculated.

Repairability: Not repairable.

MY (IDRO38) 080807

CASE GS0070

SIMAZINE

04/07/82

CHEM 080807

Simazine (2-Chloro-4,6-bis(ethylamino)

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 01 - TECHNICAL CHEMICAL

FICHE/MASTER ID 00043668

CONTENT CAT 01

Zak, F.; Hormann, W.D.; Sachsse, K. (1973) 56-Day Toxicity and Residue Study of Simazine on Rainbow Trout (#"Salmo gairdneri"#): Project No. Siss 1725. (Unpublished study received Apr 27, 1977 under 100-541; prepared by Ciba-Geigy, Ltd., Switzerland, submitted by Ciba-Geigy Corp., Greensboro, N.C.; CDL:229607-Y)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

PRIM: EEB -35-05200043 SEC: EEB -35-05100043

DIRECT RVW TIME = (MH) START-DATE

END DATE

REVIEWED BY: Daniel Reder TITLE: Wildlife Biologist

ORG: EE3/18D LOC/TEL:

SIGNATURE:

DATE: 7/29/83

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE: